

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute Patent Application

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

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|------------------------|-------------------------------|
| Application Number     | 10/600,149                    |
| Filing Date            | June 19, 2003                 |
| First Named Inventor   | Richard W. Wensel             |
| Group Art Unit         | 2814                          |
| Examiner Name          | N. Ha                         |
| Attorney Docket Number | 2269-3061.8US (96-0893.07/US) |

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|------------------------|--------------------------|--|--------------------------------|--|---|
|                        |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
| MB                     |                          | Re. 34,227                                 | 04/20/1993                     | Asher et al.                                       |   |
|                        |                          | 3,930,114                                  | 12/30/1975                     | Hodge  |   |
|                        |                          | 4,494,659                                  | 01/22/1985                     | Spees  |   |
|                        |                          | 4,781,804                                  | 11/01/1988                     | Wolf   |   |
|                        |                          | 4,800,178                                  | 01/24/1989                     | Mathew et al.                                      |   |
|                        |                          | 4,966,664                                  | 10/30/1990                     | Buerk et al.                                       |   |
|                        |                          | 4,968,397                                  | 11/06/1990                     | Asher et al.                                       |   |
|                        |                          | 4,968,398                                  | 11/06/1990                     | Ogasawara  |   |
|                        |                          | 5,028,741                                  | 07/02/1991                     | Sanders et al.                                     |   |
|                        |                          | 5,041,902                                  | 08/20/1991                     | McShane  |   |
|                        |                          | 5,186,797                                  | 02/16/1993                     | Schlenker et al.                                   |   |
|                        |                          | 5,362,370                                  | 11/08/1994                     | van der Heijden                                    |   |
|                        |                          | 5,459,103                                  | 10/17/1995                     | Kelleher et al.                                    |   |
|                        |                          | 5,485,037                                  | 01/16/1996                     | Marrs  |   |
|                        |                          | 5,594,282                                  | 01/14/1997                     | Otsuki   |   |
| MB                     |                          | 5,689,137                                  | 11/18/1997                     | Weber  |   |
|                        |                          | 5,701,034                                  | 12/23/1997                     | Marrs  |   |
|                        |                          | 5,716,458                                  | 02/10/1998                     | Machino  |   |
|                        |                          | 5,725,819                                  | 03/10/1998                     | Onishi et al.                                      |   |
|                        |                          | 5,735,040                                  | 04/07/1998                     | Ochi et al.  |   |

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|                        |                          | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known) |                                |  |   |                |
| MB                     |                          | JP 54049069 A   | 04/18/1979                     | NEC Corp.  |   | X              |
|                        |                          | JP 06132336 A   | 05/13/1994                     | Nippon Steel Corp.                                 |   | X              |
|                        |                          | JP 07324198 A   | 12/12/1995                     | Mitsubishi Chem Corp.                              |   | X              |
|                        |                          | JP 07324199 A   | 12/12/1995                     | Mitsubishi Chem Corp.                              |   | X              |
|                        |                          | JP 09050977 A   | 02/18/1997                     | Shin Etsu Handotai                                 |   | X              |
|                        |                          |   |                                |  |   |                |

Examiner  
Signature

Richard W. Wensel

Date  
Considered

11/9/06

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|  |   |    |   | Examiner Name            | N. Ha                         |
|  |   |    |   | Attorney Docket Number   | 2269-3061.8US (96-0893.07/US) |
| Sheet  | 2 | of | 2 |                          |                               |

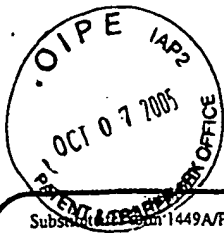
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Substantive Exam 1449A/PTO

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| NA                     |                          | US-6,020,625                               | 02/2000                        | Qin et al.   |   |
| NA                     |                          | US-6,603,198                               | 08/2003                        | Lee et al.   |   |
|                        |                          | US-  |                                |  |   |
|                        |                          | US-  |                                |  |   |
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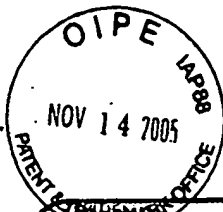
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|                       |                       | Number - Kind Code <sup>2</sup> (if known) |                                |   |   |
| [Signature]           |                       | US-5,637,913                               | 06/10/1997                     | Kajihara et al.                                 |   |
|                       |                       | US- 6,083,775                              | 07/04/2000                     | Huang et al.                                    |   |
|                       |                       | US- 6,242,287 B1                           | 06/05/2001                     | Aoki et al.                                     |   |
|                       |                       | US- 6,295,221 B1                           | 09/25/2001                     | Iwasaki et al.                                  |   |
|                       |                       | US- 2001/0028544 A1                        | 10/11/2001                     | Sano et al.                                     |   |
|                       |                       | US- 2001/0050846 A1                        | 12/13/2001                     | Cho   |   |
|                       |                       | US- 6,388,984 B2                           | 05/14/2002                     | Kitaura et al.                                  |   |
|                       |                       | US- 6,404,843 B1                           | 06/11/2002                     | Chung   |   |
|                       |                       | US- 6,462,273 B1                           | 10/08/2002                     | Corisis et al.                                  |   |
|                       |                       | US- RE38,068 E                             | 04/08/2003                     | Stoll et al.                                    |   |
| [Signature]           |                       | US- 6,573,567 B1                           | 06/03/2003                     | Nishizawa et al.                                |   |
|                       |                       | US- 6,821,822 B1                           | 11/23/2004                     | Sato  |   |
|                       |                       | US-  |                                |   |   |
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